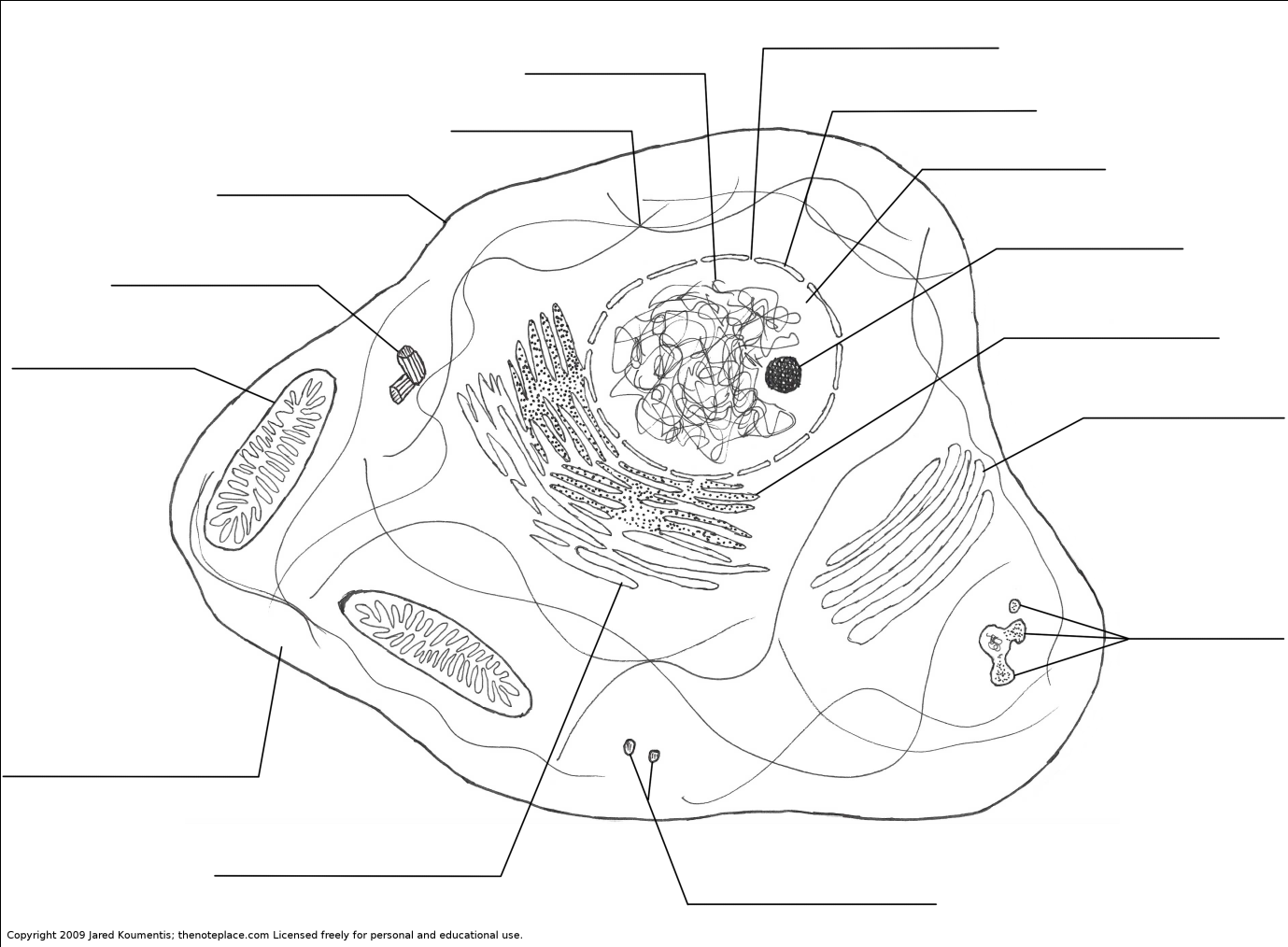
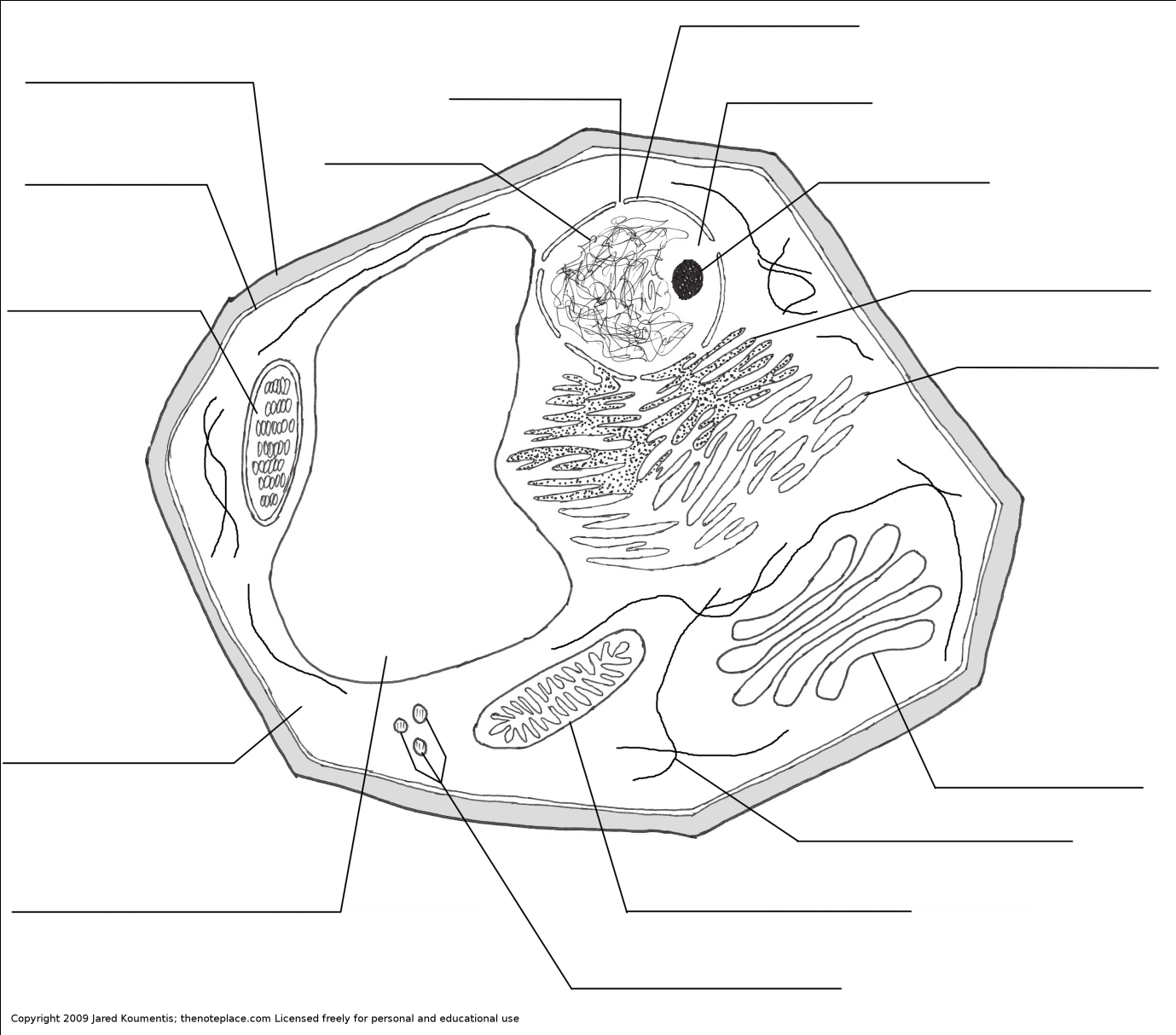
Group 11 - Expert Group Member 2 – Cells

1. Goto <http://www.forgefx.com/casestudies/prenticehall/ph/cells/cells.htm>   
   (Shockwave flash player required, if not present on your computer, download as prompted, restart computer and go back to URL)
2. Animal Cell diagram to fill in while watching simulation



Source: <http://biology.thenoteplace.com/>

Plant Cell



Source: <http://biology.thenoteplace.com/>

1. **Cell parts common in both cell types are:**

|  |  |  |
| --- | --- | --- |
|  | **Animal Cell** | **Plant Cell** |
| **Cytoplasm:** | Present | Present |
| **Endoplasmic Reticulum (Smooth and Rough):** | Present | Present |
| **Ribosomes:** | Present | Present |
| **Mitochondria:** | Present | Present |
| **Golgi Apparatus:** | Present | Present |
| **Microtubules/ Microfilaments:** | Present | Present |
| **Flagella:** | May be found in some cells | May be found in some cells |
| **Nucleus:** | Present | Present |

Source: <http://www.diffen.com/difference/Animal_Cell_vs_Plant_Cell>

**Differences between animal and plant cells**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Animal Cell** | **Plant Cell** | **Suggestion for difference** |
| **Cell wall:** | Absent | Present |  |
| **Shape:** | Round (irregular shape) | Rectangular (fixed shape) |  |
| **Vacuole:** | One or more small vacuoles (much smaller than plant cells). | One, large central vacuole taking up 90% of cell volume. |  |
| **Centrioles:** | Present in all animal cells | Only present in lower plant forms. |  |
| **Chloroplast:** | Animal cells don't have chloroplasts | Plant cells have chloroplasts because they make their own food |  |
| **Plastids:** | Absent | Present |  |
| **Plasma Membrane:** | only cell membrane | cell wall and a cell membrane |  |
| **Lysosomes:** | Lysosomes occur in cytoplasm. | Lysosomes usually not evident. |  |
| **Cilia:** | Present | It is very rare |  |

Source: <http://www.diffen.com/difference/Animal_Cell_vs_Plant_Cell>